



SPECIFICATION FOR APPROVAL

CUSTOMER:	
CUSTOMER P/N:	
CND-TEK P/N. :	CND-WCM2012F2SF-801
DESCRIPTION:	Wire Wound Type Common Mode Filter
REF NO:	QTC-002
REV/NO:	A/0
DATE:	2018/08/16
ATTACHMENT:	
■ SPECIFICATION	

SAMPLE Q'TY OF SAMPLES

PCS

	 CUSTOMER'S SIGNATURE	REMARK
FULL APPROVED		
CONDITIONAL APPROVED		
REJECTED		



CND-WCM2012F2SF-801

Wire Wound Type Common Mode Filter



V1.0.3 AUG 16,2018

深圳磁联达电子有限公司

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变更履历表

变更日期	变更内容	版次	备注
2018-8-16	新制作	A0	

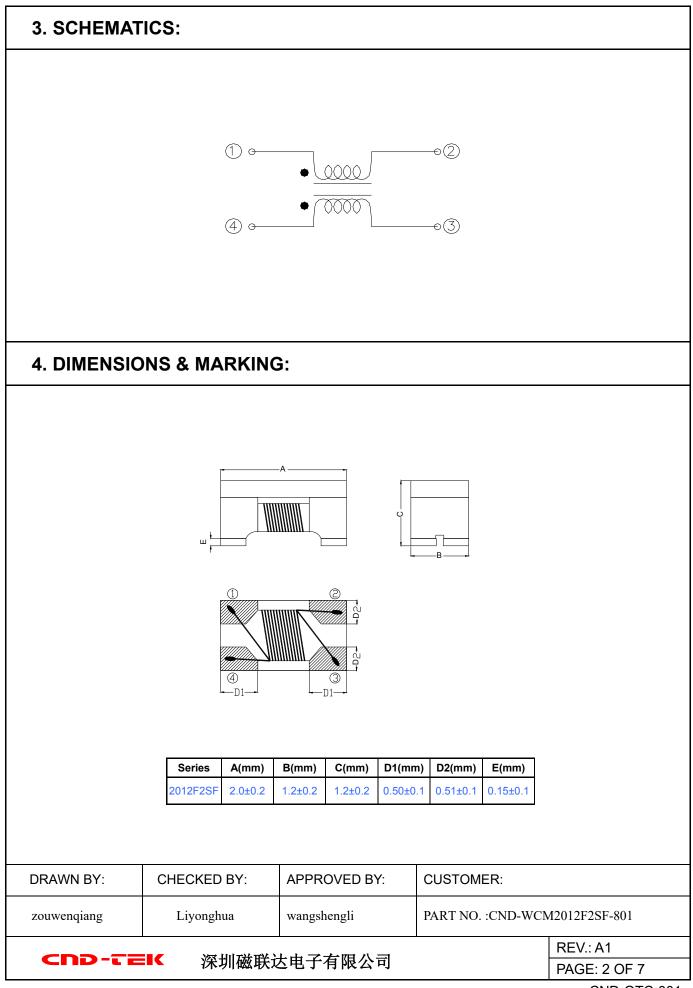
1. FEATURES:

- 1.1 High common mode impedance at high frequency cause excellent noise suppression performance.
- 1.2 CND-WCM2012F2SF-801 series realizes small size and low profile. 2.0*1.2*1.2 mm.
- 1.3 100% Lead(Pb) & Halogen-Free and RoHS compliant.
- 1.4 Operating Temperature range: -40~+125°C (Including self temperature rise)
- 1.5 Storage temperature range: $-40 \sim +125$ °C (on board)

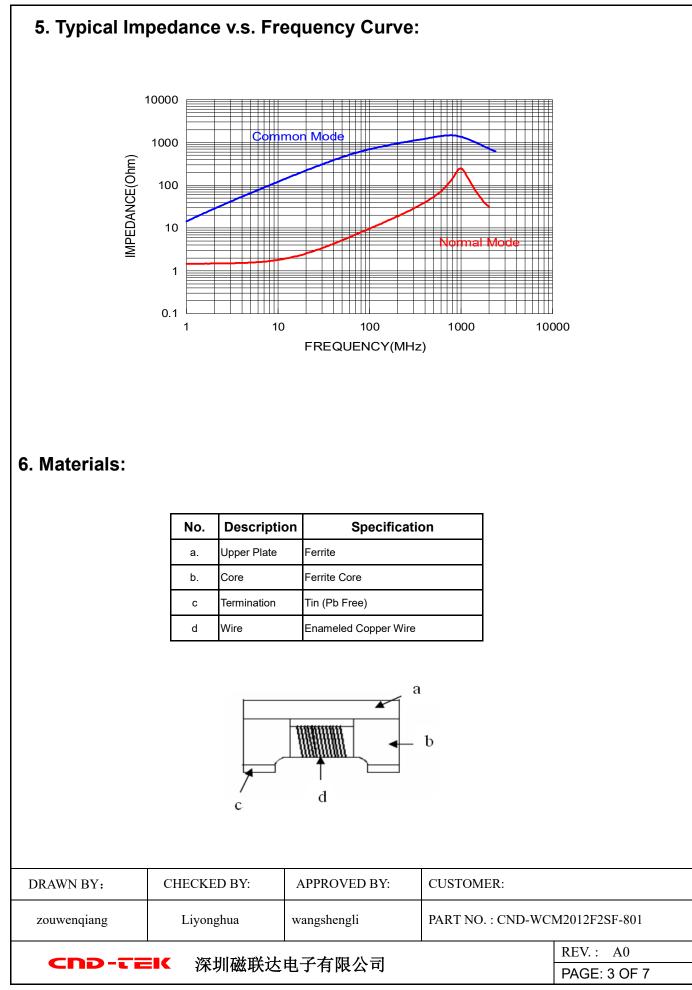
2. ELECTRICAL SPECIFICATIONS @25°C

- 2.1 Common mode Impedance (Ω): 800±25%
- 2.2 Test Frequency (MHz) :100
- 2.3 DCResistance (Ω) max: 0.88
- 2.4 Rated Current (mA)max: 300
- 2.5 Rated Volt.(Vdc)max: 50
- 2.6 Withstand Volt. (Vdc) max:125
- 2.7 IR (Ω) min: 10M

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CND-TE	PAGE: 1 OF 7					



CND-QTC-001



Item	Performan	ce		Test Condition		
Operating temperature	-40~+125 ℃ (Inclu	ding self -				
	temperature rise)					
Storage temperature	-40~+125°C (on board)					
Electrical Performance	Test					
Z(common mode)	Refer to standard	d electrical	Agilent-4	291A+ Agilent -16197A		
DCR	characteristics list.		Agilent-4	338B		
.R.			Agilent43	339		
Temperature Rise Test	Rated Current < 1A \triangle	Г 20℃ Мах	1.Applied	the allowed DC current.		
	Rated Current \geq 1A 4	∆ T 40° C Max	2.Tempe	rature measured by digital surface thermometer		
Reliability Test						
Life Test			times.(IF J-STD-02 Tempera Applied of Duration	itioning: Run through IR reflow for 2 PC/JEDEC 20DClassification Reflow Profiles) ture: 125±2°C current: rated current : 1000±12hrs d at room temperature after placing for 24±2 hrs		
_oad Humidity			Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles Humidity: 85±2 % R.H, Temperature: 85°C±2°C Duration: 1000hrs Min. with 100% rated current Measured at room temperature after placing for 24±2 hrs			
Moisture Resistance	Appearance : No dama Inductance : within±10 value Impedance : within±15 value RDC :within ±15% of in shall not exceed the specification	% of initial % of initial itial value and	Preconditioning: Run through IR reflow for 2 times.(IPC/JEDEC J-STD-020DClassification Reflow Profiles 1. Baked at50°C for 25hrs, measured at room temperatu after placing for 4 hrs. 2. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, a keep 3 hours, cool down to 25°C in 2.5hrs. 3. Raise temperature to 65±2°C 90-100%RH in 2.5hrs, a keep 3 hours, cool down to 25°C in 2.5hrs,keep at 25°C for 2 hrs then keep at -10°C for 3 hr 4. Keep at 25°C 80-100%RH for 15min and vibrate at the frequency of 10 to 55 Hz to 10 Hz, measure at room temperature after placing for 1~2 hrs.			
Thermal shock			times.(IF Reflow P Step1: - Step2: 2 Step3: 1 Number 0	itioning: Run through IR reflow for 2 PC/JEDECJ-STD-020DClassification Profiles Condition for 1 cycle $40\pm2^{\circ}C$ 30 ± 5 min $125\pm2^{\circ}C \leq 0.5$ min 125 $\pm2^{\circ}C 30\pm5$ min of cycles: 500 d at room temperature after placing for 24 ±2 hrs		
√ibration			Oscillatio Equipme Total Am	on Frequency: 10~2K~10Hz for 20 minutes ont: Vibration checker plitude:1.52mm±10% ime : 12 hours(20 minutes, 12 cycles each of 3		
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Item	1	Performance			Test Condition					
				Ту	pe	Peak	Norm	nal	Wave	Velocity
						value	durat	tion	form	change
		A	names Nie demoster			(g 's)	(D) (I	ms)		(Vi)ft/sec
Shock			rance: No damage.	SI	MD	50	11		Half-si	11.3
DIUCK		Inducta	ance: within±10% of		ead	50	11		ne Half-si	11.3
		initial v	alue		Jau	50			ne	11.5
		Impeda	ance:within±15% of	sho	ocks ir	n each	direction	n alon	g 3 per	pendicula
		initial v	alue	axe	es.					
		RDC:	within ±15% of initial						bstrate o	
		value a	and shall not		-			0805:	40x100>	:1.2mm
Bending		exceer	the specification value)x100x(depth:).8mm			
bending		CAUCCE			-	-	2mm):1.	2mm		
						•	2mm):0.8			
						of 10 se	,			
							60sec.。			
		More t	han 95% of the terminal				6 Ag3% (Cu0.5	%	
Soderability		electrode should			Temperature: 245±5℃。 Flux for lead free: Rosin. 9.5%。					
		be cov	ered with solder。					9.5%	0	
			-	Dip time: 4±1sec。 Depth: completely cover the termination						
				-		f heat cy	•			
				Те	mpera	ture	Time(s)		Temp	erature
Resistance				(° (C)				ramp/	immersion
o Soldering									and	emersion
leat				26	60 ±5(se	oldor	10 ±1		rate 25mm	n/s ±6
					mp)	Juei	10 11		mm/s	//S 10
					• •	tioning:	Run thro	ough II	R reflow	for 2
		Annea	rance ∶ No damage.				EC J-ST	D-020)DClassi	fication
			ance : within±10% of			rofiles			50	
					h the (/ice to	-	nent mou	unted	on a PC	B with th
		initial v					orce (>0	805		
		Impeda	ance: within±15% of				kg , <=0			
		initial v	alue		•		.5kg)to t		e	
		RDC :	within ±15% of initial			-	g tested.			
Ferminal		value a	and shall not				pe applie	ed for	60 +1 se	conds.
Strength		exceed	the specification value	Also the force shall be applied gradually as						
							-	-	nponent	beina
				test		,				
						DUT	. 1			
					1	3	SR). , wide	
							-	14	5.	
					sub	strate	pres	is tool	thick	1435
									shear	force
REPORT BY:	CHECKED B	Y:	APPROVED BY:	CL	JSTO	MER:				
zouwenqiang	Liyonghua		wangshengli	PART NO. :CND-WCM2012F2SF-801						
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8、Soldering and Mounting: 8.1 Recommended PC Board Pattern



PC board should be designed so that products can prevent damage from mechanical stress when warping the board. Products shall be positioned in the sideway direction to against the mechanical stress to prevent failure.

8.2 Soldering

Mildly activated rosin fluxes are preferred. JXD terminations are suitable for all wave and re-flow soldering systems. If hand soldering cannot be avoided, the preferred technique is the utilization of hot air soldering tools.

8-2.1 Lead Free Solder re-flow:

Recommended temperature profiles for re-flow soldering in Figure 1.

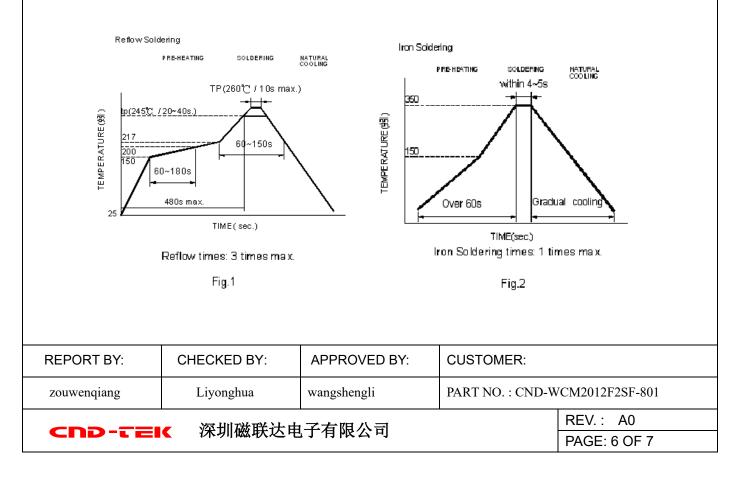
8-2.2 Soldering Iron(Figure 2):

Products attachment with a soldering iron is discouraged due to the inherent process control limitations. In the event that a soldering iron must be employed the following precautions are recommended.

Preheat circuit and products to 150°C ·Never contact the ceramic with the iron tip ·Use a 20 watt soldering iron

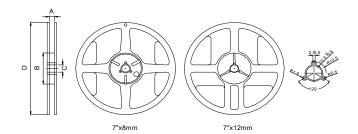
with tip diameter of 1.0mm

tip temperature (max) 1.0mm tip diameter (max) Limit soldering time to 4~5 sec.



9、Packaging Information:

9.1 Reel Dimension



Туре	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2

9.2 Tape Dimension / 8mm

Series	W(mm)	P(mm)	E(mm)	F(mm)	P2(mm)	D(mm)	P0(mm)	A0(mm)	B0(mm)	K0(mm)	t(mm)
CND-WCM2012F2SF-801	8.00±0.10	4.00±0.10	1.75±0.10	3.50±0.05	2.00±0.05	1.50+0.10/-0.00	4.00±0.10	1.50±0.10	2.35±0.10	1.45±0.10	0.28±0.05

9.3 Packaging Quantity

Chip size	Chip/Reel	Inner Box	Middle Box	Carton
CND-WCM2012F2SF-801	2000	10000	50000	100000

9.4 Tearing Off Force

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Top cover tape

The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

-				
	Room Temp.	Room Humidity	Room atm	Tearing Spe
	(°C)	(%)	(hPa)	mm/min
	5~35	45~85	860~1060	300

Application Notice:

- Storage Conditions
- To maintain the solderability of terminal electrodes:
- 1. CND-TEK products meet IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40 $^\circ\!\mathbb{C}$ and 60% RH.
- $\ensuremath{\mathsf{3.}}$. Remmended products should be used within 12 months form the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.
- Transportation
 - 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.

Base tape

- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.

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